

SEQUENCE LISTING

<110> Walke, D. Wade
Scoville, John
Donoho, Gregory
Turner, C. Alexander Jr.

<120> Novel Human Proteins and Polynucleotides Encoding the Same

<130> LEX-0180-USA

<150> US 60/206,414

<151> 2000-05-23

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 765

<212> DNA

<213> homo sapiens

<400> 1

atgcaaattgg	gaagattttct	tctcttagta	attttatttc	tgccacgtga	gatgacaagt	60
tctgttttaa	ctgtgaatgg	taaaactgag	aactatatcc	tgatactac	acctggctcc	120
caagcatctc	tgatatgtgc	tggtcaaaac	cacaccagag	aggaagaact	gctctggtac	180
cgagaggagg	ggagagtggg	tttgaaatct	gsaaacaama	tcaattccag	ctctgtctgt	240
gtctcttcca	tcagtgaaaa	tgacaacgga	atcagcttta	cctgcaggct	ggggagggat	300
cagtcctgtg	ccgtttcggg	ggtgctgaat	gttacttttc	ctcctctcct	aagtggaaac	360
gacttccaaa	cagttgagga	aggcagtaat	gtgaagttgg	tttgcaatgt	gaaagccaac	420
ccccaggctc	aaatgatgtg	gtacaaaaac	agtagtctcc	tcgatttaga	gaaaagccgt	480
caccaaattc	aacagacaag	tgagtctttt	cagctgtcaa	tcaccaaagt	cgagaagcct	540
gacaacggaa	cctacagttg	tattgcaaag	tcattctctga	aaacggagag	cttggacttt	600
cacctgattg	ttaaagataa	aactgtgggt	gtaccaatag	agcccattat	tgctgcatgt	660
gttgatgatc	ttctgacatt	gtgctttgga	ctgattgcta	gaagaaagaa	aataatgaag	720
ctctgcatga	aggataaaga	ccctcacagt	gaaacagctc	tatga		765

<210> 2

<211> 254

<212> PRT

<213> homo sapiens

<400> 2

Met	Gln	Met	Gly	Arg	Phe	Leu	Leu	Leu	Val	Ile	Leu	Phe	Leu	Pro	Arg
1				5					10					15	
Glu	Met	Thr	Ser	Ser	Val	Leu	Thr	Val	Asn	Gly	Lys	Thr	Glu	Asn	Tyr
			20					25					30		
Ile	Leu	Asp	Thr	Thr	Pro	Gly	Ser	Gln	Ala	Ser	Leu	Ile	Cys	Ala	Val
		35				40					45				
Gln	Asn	His	Thr	Arg	Glu	Glu	Glu	Leu	Leu	Trp	Tyr	Arg	Glu	Glu	Gly
	50				55					60					
Arg	Val	Asp	Leu	Lys	Ser	Gly	Asn	Lys	Ile	Asn	Ser	Ser	Ser	Val	Cys
65				70				75						80	
Val	Ser	Ser	Ile	Ser	Glu	Asn	Asp	Asn	Gly	Ile	Ser	Phe	Thr	Cys	Arg

				85					90					95					
Leu	Gly	Arg	Asp	Gln	Ser	Val	Ser	Val	Ser	Val	Val	Leu	Asn	Val	Thr				
				100					105					110					
Phe	Pro	Pro	Leu	Leu	Ser	Gly	Asn	Asp	Phe	Gln	Thr	Val	Glu	Glu	Gly				
				115					120					125					
Ser	Asn	Val	Lys	Leu	Val	Cys	Asn	Val	Lys	Ala	Asn	Pro	Gln	Ala	Gln				
				130					135					140					
Met	Met	Trp	Tyr	Lys	Asn	Ser	Ser	Leu	Leu	Asp	Leu	Glu	Lys	Ser	Arg				
145					150					155					160				
His	Gln	Ile	Gln	Gln	Thr	Ser	Glu	Ser	Phe	Gln	Leu	Ser	Ile	Thr	Lys				
				165					170					175					
Val	Glu	Lys	Pro	Asp	Asn	Gly	Thr	Tyr	Ser	Cys	Ile	Ala	Lys	Ser	Ser				
				180					185					190					
Leu	Lys	Thr	Glu	Ser	Leu	Asp	Phe	His	Leu	Ile	Val	Lys	Asp	Lys	Thr				
				195					200					205					
Val	Gly	Val	Pro	Ile	Glu	Pro	Ile	Ile	Ala	Ala	Cys	Val	Val	Ile	Phe				
				210					215					220					
Leu	Thr	Leu	Cys	Phe	Gly	Leu	Ile	Ala	Arg	Arg	Lys	Lys	Ile	Met	Lys				
225					230				235						240				
Leu	Cys	Met	Lys	Asp	Lys	Asp	Pro	His	Ser	Glu	Thr	Ala	Leu						
				245					250										

<210> 3
 <211> 633
 <212> DNA
 <213> homo sapiens

<400> 3

atgcaaattgg	gaagatttct	tctcttagta	atthttatttc	tgccacgtga	gatgacaagt	60
tctgttttaa	ctgtgaatgg	taaaactgag	aactatatcc	tgatactac	acctggctcc	120
caagcatctc	tgatatgtgc	tgttcaaaac	cacaccagag	aggaagaact	gctctggtac	180
cgagaggagg	ggagagtggg	tttgaaatct	gsaaacaama	tcaattccag	ctctgtctgt	240
gtctcttcca	tcagtgaaaa	tgacaacgga	atcagcttta	cctgcaggct	ggggagggat	300
cagtcctgtg	ccgtttcggg	ggtgctgaat	gttacttttc	ctcctctcct	aagtggaaac	360
gacttccaaa	cagttgagga	aggcagtaat	gtgaagtggg	tttgcaatgt	gaaagccaac	420
ccccaggctc	aatgatgtg	gtacaaaaac	agtagtctcc	tcgatttaga	gaaaagccgt	480
caccaaattc	aacagacaag	tgagtctttt	cagctgtcaa	tcaccaaagt	cgagaagcct	540
gacaacggaa	cctacagttg	tattgcaaag	tcattctctga	aaacggagag	cttggacttt	600
cacctgattg	ttaaagctct	gcatgaagga	taa			633

<210> 4
 <211> 210
 <212> PRT
 <213> homo sapiens

<400> 4

Met	Gln	Met	Gly	Arg	Phe	Leu	Leu	Leu	Val	Ile	Leu	Phe	Leu	Pro	Arg
1				5					10					15	
Glu	Met	Thr	Ser	Ser	Val	Leu	Thr	Val	Asn	Gly	Lys	Thr	Glu	Asn	Tyr
				20					25				30		
Ile	Leu	Asp	Thr	Thr	Pro	Gly	Ser	Gln	Ala	Ser	Leu	Ile	Cys	Ala	Val
				35				40					45		
Gln	Asn	His	Thr	Arg	Glu	Glu	Glu	Leu	Leu	Trp	Tyr	Arg	Glu	Glu	Gly
	50					55					60				
Arg	Val	Asp	Leu	Lys	Ser	Gly	Asn	Lys	Ile	Asn	Ser	Ser	Ser	Val	Cys
65					70					75					80

Val Ser Ser Ile Ser Glu Asn Asp Asn Gly Ile Ser Phe Thr Cys Arg
85 90 95
Leu Gly Arg Asp Gln Ser Val Ser Val Ser Val Val Leu Asn Val Thr
100 105 110
Phe Pro Pro Leu Leu Ser Gly Asn Asp Phe Gln Thr Val Glu Glu Gly
115 120 125
Ser Asn Val Lys Leu Val Cys Asn Val Lys Ala Asn Pro Gln Ala Gln
130 135 140
Met Met Trp Tyr Lys Asn Ser Ser Leu Leu Asp Leu Glu Lys Ser Arg
145 150 155 160
His Gln Ile Gln Gln Thr Ser Glu Ser Phe Gln Leu Ser Ile Thr Lys
165 170 175
Val Glu Lys Pro Asp Asn Gly Thr Tyr Ser Cys Ile Ala Lys Ser Ser
180 185 190
Leu Lys Thr Glu Ser Leu Asp Phe His Leu Ile Val Lys Ala Leu His
195 200 205
Glu Gly
210

<210> 5
<211> 789
<212> DNA
<213> homo sapiens

<400> 5
atggcatgga agagcagtgt cataatgcar atgggaagat ttcttctctt agtaatttta 60
tttctgccac gtgagatgac aagttctgtt ttaactgtga atggtaaaac tgagaactat 120
atcctggata ctacacctgg ctcccaagca tctctgatat gtgctgttca aaaccacacc 180
agagaggaag aactgctctg gtaccgagag gaggggagag tggatttgaa atctgsaaac 240
aamatcaatt ccagctctgt ctgtgtctct tccatcagtg aaaatgacaa cggaatcagc 300
tttacctgca ggctggggag ggatcagtcg gtgtccggtt cggtggtgct gaatgttact 360
tttctctctc tcctaagtgg aaacgacttc caaacagttg aggaaggcag taatgtgaag 420
ttgggtttgca atgtgaaagc caacccccag gctcaaataa tgtggtacaa aaacagtagt 480
ctcctcgatt tagagaaaag ccgtcaccaa atccaacaga caagtgagtc ttttcagctg 540
tcaatcacca aagtcgagaa gcctgacaac ggaacctaca gttgtattgc aaagtcattc 600
ctgaaaacgg agagcttgga ctttcacctg attgttaaag ataaaactgt ggggtgtacca 660
atagagccca ttattgctgc atgtgttggtg atctttctga cattgtgctt tggactgatt 720
gctagaagaa agaaaataat gaagctctgc atgaaggata aagaccctca cagtgaacaa 780
gctctatga 789

<210> 6
<211> 262
<212> PRT
<213> homo sapiens

<400> 6
Met Ala Trp Lys Ser Ser Val Ile Met Gln Met Gly Arg Phe Leu Leu
1 5 10 15
Leu Val Ile Leu Phe Leu Pro Arg Glu Met Thr Ser Ser Val Leu Thr
20 25 30
Val Asn Gly Lys Thr Glu Asn Tyr Ile Leu Asp Thr Thr Pro Gly Ser
35 40 45
Gln Ala Ser Leu Ile Cys Ala Val Gln Asn His Thr Arg Glu Glu Glu
50 55 60
Leu Leu Trp Tyr Arg Glu Gly Arg Val Asp Leu Lys Ser Gly Asn
65 70 75 80

Lys Ile Asn Ser Ser Ser Val Cys Val Ser Ser Ile Ser Glu Asn Asp
 85 90 95
 Asn Gly Ile Ser Phe Thr Cys Arg Leu Gly Arg Asp Gln Ser Val Ser
 100 105 110
 Val Ser Val Val Leu Asn Val Thr Phe Pro Pro Leu Leu Ser Gly Asn
 115 120 125
 Asp Phe Gln Thr Val Glu Glu Gly Ser Asn Val Lys Leu Val Cys Asn
 130 135 140
 Val Lys Ala Asn Pro Gln Ala Gln Met Met Trp Tyr Lys Asn Ser Ser
 145 150 155 160
 Leu Leu Asp Leu Glu Lys Ser Arg His Gln Ile Gln Gln Thr Ser Glu
 165 170 175
 Ser Phe Gln Leu Ser Ile Thr Lys Val Glu Lys Pro Asp Asn Gly Thr
 180 185 190
 Tyr Ser Cys Ile Ala Lys Ser Ser Leu Lys Thr Glu Ser Leu Asp Phe
 195 200 205
 His Leu Ile Val Lys Asp Lys Thr Val Gly Val Pro Ile Glu Pro Ile
 210 215 220
 Ile Ala Ala Cys Val Val Ile Phe Leu Thr Leu Cys Phe Gly Leu Ile
 225 230 235 240
 Ala Arg Arg Lys Lys Ile Met Lys Leu Cys Met Lys Asp Lys Asp Pro
 245 250 255
 His Ser Glu Thr Ala Leu
 260

<210> 7
 <211> 657
 <212> DNA
 <213> homo sapiens

<400> 7
 atggcatgga agagcagtgt cataatgcar atgggaagat ttcttctctt agtaatttta 60
 tttctgccac gtgagatgac aagttctgtt ttaactgtga atggtaaaac tgagaactat 120
 atcctggata ctacacctgg ctcccaagca tctctgatat gtgctgttca aaaccacacc 180
 agagaggaag aactgctctg gtaccgagag gaggggagag tggatttgaa atctgsaaac 240
 aamatcaatt ccagctctgt ctgtgtctct tccatcagtg aaaatgacaa cggaatcagc 300
 tttacctgca ggctggggag ggatcagtcg gtgtccggtt cggtggtgct gaatgttact 360
 tttcctcctc tcctaagtgg aaacgacttc caaacagttg aggaaggcag taatgtgaag 420
 ttggtttgca atgtgaaagc caacccccag gctcaaatga tgtggtacaa aaacagtagt 480
 ctctcgtatt tagagaaaag ccgtcaccaa atccaacaga caagtgagtc ttttcagctg 540
 tcaatcacca aagtcgagaa gcctgacaac ggaacctaca gttgtattgc aaagtcattc 600
 ctgaaaacgg agagcttgga ctttcacctg attgttaaag ctctgcatga aggataa 657

<210> 8
 <211> 218
 <212> PRT
 <213> homo sapiens

<400> 8
 Met Ala Trp Lys Ser Ser Val Ile Met Gln Met Gly Arg Phe Leu Leu
 1 5 10 15
 Leu Val Ile Leu Phe Leu Pro Arg Glu Met Thr Ser Ser Val Leu Thr
 20 25 30
 Val Asn Gly Lys Thr Glu Asn Tyr Ile Leu Asp Thr Thr Pro Gly Ser
 35 40 45
 Gln Ala Ser Leu Ile Cys Ala Val Gln Asn His Thr Arg Glu Glu Glu

50	55	60
Leu Leu Trp Tyr Arg Glu Glu Gly Arg Val Asp Leu Lys Ser Gly Asn		
65	70	75
Lys Ile Asn Ser Ser Ser Val Cys Val Ser Ser Ile Ser Glu Asn Asp		80
	85	90
Asn Gly Ile Ser Phe Thr Cys Arg Leu Gly Arg Asp Gln Ser Val Ser		95
	100	105
Val Ser Val Val Leu Asn Val Thr Phe Pro Pro Leu Leu Ser Gly Asn		110
	115	120
Asp Phe Gln Thr Val Glu Glu Gly Ser Asn Val Lys Leu Val Cys Asn		125
	130	135
Val Lys Ala Asn Pro Gln Ala Gln Met Met Trp Tyr Lys Asn Ser Ser		140
145	150	155
Leu Leu Asp Leu Glu Lys Ser Arg His Gln Ile Gln Gln Thr Ser Glu		160
	165	170
Ser Phe Gln Leu Ser Ile Thr Lys Val Glu Lys Pro Asp Asn Gly Thr		175
	180	185
Tyr Ser Cys Ile Ala Lys Ser Ser Leu Lys Thr Glu Ser Leu Asp Phe		190
	195	200
His Leu Ile Val Lys Ala Leu His Glu Gly		205
210	215	

<210> 9
 <211> 1256
 <212> DNA
 <213> homo sapiens

<400> 9
 caaaaccaac tgcactatatt ttcccttcag aggaacagtt ggccaaggaa gtcagcttct 60
 cagagctcaa gagtagatct gagtttaact cattaagat ggcatggaag agcagtgtca 120
 taatgcarat gggaagattt cttctcttag taattttatt tctgccacgt gagatgacaa 180
 gttctgtttt aactgtgaat ggtaaaactg agaactatat cctggatact acacctggct 240
 cccaagcatc tctgatatgt gctgttcaaa accacaccag agaggaagaa ctgctctggg 300
 accgagagga ggggagagtg gatttgaaat ctgsaaacaa matcaattcc agctctgtct 360
 gtgtctcttc catcagtga aatgacaacg gaatcagctt tacctgcagg ctggggaggg 420
 atcagtccgt gtcggtttcg gtggtgctga atgttacttt tcctcctctc ctaagtggaa 480
 acgacttcca aacagttgag gaaggcagta atgtgaagtt ggtttgcaat gtgaaagcca 540
 acccccaggc tcaaattgat tgggtacaaa acagtagtct cctcgattta gagaaaagcc 600
 gtcaccaaatt ccaacagaca agtgagtctt ttcagctgtc aatcaccaaa gtcgagaagc 660
 ctgacaacgg aacctacagt tgtattgcaa agtcatctct gaaaacggag agcttggact 720
 ttcacctgat tgtaaagat aaaactgtgg gtgtaccaat agagcccatt attgctgcat 780
 gtgttgatgat ctttctgaca ttgtgctttg gactgattgc tagaagaaag aaaataatga 840
 agctctgcat gaaggataaa gaccctcaca gtgaaacagc tctatgagaa agctgagatg 900
 ccatcgaata cagagagagt tttgcatcag gacctccaca atttatgtag tcccatctgt 960
 atttattgct attattaaat tcaactctgt cactcctgtt tcattaatca cttaacagta 1020
 gttgttagga ctaatttgat acacttggtg aacattttta tggaaagagc tattaagaat 1080
 gaaaagtaag attttggttaa gtcttctcct tgaagtatat gttaattaat tgagatttgt 1140
 tccaaatagg ttggtaatca tttactgttt agtgtgtttt ttttctaggt aggagatact 1200
 tgggtctcac aaattggtgc aaagccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1256